

APPENDIX A

>gi|31795107|gb|AC005383.2| EID Homo sapiens chromosome 10 clone CIT967SK-1144G6 map 10q25.1, complete
sequence
Length = 121774

Score = 1405 bits (709), Expect = 0.0
Identities = 747/753 (99%), Gaps = 5/753 (0%)
Strand = Plus / Plus

Query: 2614 ggattctttgagacgccccctgaggcacatggctcccgtgcaggagggcagcagccgtaccc 2673
|||||
Sbjct: 78153 ggattctttgagacgccccctgaggcacatggctcccgtgcaggagggcagcagccgtaccc 78212

Query: 2674 ctcccagcaactacagagaaggcctgggcactgaaatggtgcctaccttctggaatgtct 2733
|||||
Sbjct: 78213 ctcccagcaactacagagaaggcctgggcactgaaatggtgcctaccttctggaatgtct 78272

Query: 2734 gtgccccaggctccttagaatgtctgcttcccgcctggccaggaccactattctcactga 2793
|||||
Sbjct: 78273 gtgccccaggctccttagaatgtctgcttcccgcctggccaggaccactattctcactga 78332

Query: 2794 gggaggaggatgtcccaactgcagccatgctgcttagagacaagaaagcagctgatgtca 2853
|||||
Sbjct: 78333 gggaggaggatgtcccaactgcagccatgctgcttagagacaagaaagcagctgatgtca 78392

Query: 2854 cccacaaacgatgttgttgaagttttgatgtgttaagtaaataccactttctgtacct 2913
|||||
Sbjct: 78393 cccacaaacgatgttgttgaagttttgatgtgttaagtaaataccactttctgtacct 78452

Query: 2914 gctgtgccttgttgggctatgtcatctgccacctttcccttgaggataaacaaggggtc 2973
|||||
Sbjct: 78453 gctgtgccttgttgggctatgtcatctgccacctttcccttgaggataaacaaggggtc 78512

Query: 2974 ctgaagacttaaatattagcggcctgacgttcctttgcacacaatcaatgctcgccagaat 3033
|||||
Sbjct: 78513 ctgaagacttaaatattagcggcctgacgttcctttgcacacaatcaatgctcgccagaat 78572

Query: 3034 gttgttgacacagtaaatgccagcagaggcctttactagagcatcctttggacggcggaag 3093
|||||
Sbjct: 78573 gttgttgacacagtaaatgccagcagaggcctttactagagcatcctttggacggcggaag 78632

Query: 3094 gccacggcctttcaagatggaaagcagcagcttttccacttccccagagacattctggat 3153
|||||
Sbjct: 78633 gccacggcctttcaagatggaaagcagcagcttttccacttccccagagacattctggat 78692

Query: 3154 gcatttgcattgagctctgaaagggggttgagggacgtttgtgactctcttgccgactgcc 3213
|||||
Sbjct: 78693 gcatttgcattgagctctgaaagggggttgagggacgtttgtgactctcttgccgactgcc 78751

Query: 3214 ttttctgtgtggaagagacttggaagggtctcagactg-aatgtgaccaattaaccagct 3272
|||||
Sbjct: 78752 ttttctgtgtggaagagacttggaagggtctcagactgaaatgtgaccaattaaccagct 78811

Query: 3273 tgggttgatgatgggggaggggctgagctgtgc-atggggccagggtctgga-gggccacgt 3330
|||||
Sbjct: 78812 tgggttgatgatgggggaggggctgagctgtgc-tgtgcaatggggccagggtctgga-gggggccacgt 78870

Query: 3331 aaaatcgtcttgagtcgtgagcagtgctccacct 3363
|||||
Sbjct: 78871 aaaatcgtcttgagtcgtgagcagtgctccacct 78903

Score = 1140 bits (575), Expect = 0.0
Identities = 575/575 (100%)
Strand = Plus / Plus

Query: 1324 gccctgaagctgagcctggaatgcagggtcgacctcctcttctgctggacagctctgcg 1383
|||||
Sbjct: 72874 gccctgaagctgagcctggaatgcagggtcgacctcctcttctgctggacagctctgcg 72933

Query: 1384 aacaccactctaacacacttctctcaaaccaaaatcttctatnaaacqatllatccaaacc 1443

Score = 1076 bits (543), Expect = 0.0
Identities = 553/555 (99%), Gaps = 1/555 (0%)
Strand = Plus / Plus

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|||||
Sbjct: 76291  tggtcgtgggctggggcctgtcctaagtgagggctctgcggaggcttcaggtccccggg 76350

Query: 2374  attccctgatccacgtggcagcttacgccgacctgcggtaccaccaggacgtgctcattg 2433
|||||
Sbjct: 76351  attccctgatccacgtggcagcttacgccgacctgcggtaccaccaggacgtgctcattg 76410

Query: 2434  agtggctgtgtggag 2448
|||||
Sbjct: 76411  agtggctgtgtggag 76425
```

Score = 626 bits (316), Expect = e-176
Identities = 316/316 (100%)
Strand = Plus / Plus

```
Query: 2      acagtgttcgcggctgcaccgctcggaggctgggtgacccgcgtagaagtgaagtacttt 61
|||||
Sbjct: 26189  acagtgttcgcggctgcaccgctcggaggctgggtgacccgcgtagaagtgaagtacttt 26248

Query: 62     tttatttgcagacctgggccgatgccgctttaaaaaacgcgaggggctctatgcacctcc 121
|||||
Sbjct: 26249  tttatttgcagacctgggccgatgccgctttaaaaaacgcgaggggctctatgcacctcc 26308

Query: 122    ctggcggtagttcctccgacctcagccgggtcgggtcgtgccgccctctcccaggagaga 181
|||||
Sbjct: 26309  ctggcggtagttcctccgacctcagccgggtcgggtcgtgccgccctctcccaggagaga 26368

Query: 182    caaacagggtgtcccacgtggcagccgcgccccgggcgccccctcctgtgatcccgtagcgc 241
|||||
Sbjct: 26369  caaacagggtgtcccacgtggcagccgcgccccgggcgccccctcctgtgatcccgtagcgc 26428

Query: 242    cccctggcccgagccgcgccgggtctgtgagtagagccgccccgggcaccgagcgctggt 301
|||||
Sbjct: 26429  cccctggcccgagccgcgccgggtctgtgagtagagccgccccgggcaccgagcgctggt 26488

Query: 302    cgccgctctccttcg 317
|||||
Sbjct: 26489  cgccgctctccttcg 26504
```

Score = 391 bits (197), Expect = e-105
Identities = 197/197 (100%)
Strand = Plus / Plus

```
Query: 699    aggaggcgacgagacggaacttgctctgaaataccttctgcacagaggggtgcctgg 758
|||||
Sbjct: 59676  aggaggcgacgagacggaacttgctctgaaataccttctgcacagaggggtgcctgg 59735

Query: 759    aggcagaaatgcttctgtgccccagatcctcatcatcgtcactgatgggaagtcccagg 818
|||||
Sbjct: 59736  aggcagaaatgcttctgtgccccagatcctcatcatcgtcactgatgggaagtcccagg 59795

Query: 819    ggatgtggcactgccatccaagcagctgaaggaaaggggtgtcactgtgtttgctgtggg 878
|||||
Sbjct: 59796  ggatgtggcactgccatccaagcagctgaaggaaaggggtgtcactgtgtttgctgtggg 59855

Query: 879    ggtcagggtttcccaggt 895
|||||
Sbjct: 59856  ggtcagggtttcccaggt 59872
```

Score = 335 bits (169), Expect = 4e-88
Identities = 169/169 (100%)
Strand = Plus / Plus

Query: 2447 agaagccaagcagccagctcaacctctgcaaaccagcccgtgcatgaatgagggcagctg 2506
|||||
Sbjct: 77174 agaagccaagcagccagctcaacctctgcaaaccagcccgtgcatgaatgagggcagctg 77233

Query: 2507 cgtcctgcagaatgggagctaccgctgcaagtgtcgggatggctgggagggcccccactg 2566
|||||
Sbjct: 77234 cgtcctgcagaatgggagctaccgctgcaagtgtcgggatggctgggagggcccccactg 77293

Query: 2567 cgagaaccgtgagtgaggctcttgcctgtatgtgtgagccagggatgg 2615
|||||
Sbjct: 77294 cgagaaccgtgagtgaggctcttgcctgtatgtgtgagccagggatgg 77342

Score = 272 bits (137), Expect = 5e-69
Identities = 137/137 (100%)
Strand = Plus / Plus

Query: 891 caggtgggaggagctgcatgcaactggccagcagcctagagggcagcacgtgctgttggc 950
|||||
Sbjct: 64847 caggtgggaggagctgcatgcaactggccagcagcctagagggcagcacgtgctgttggc 64906

Query: 951 tgagcaggtggaggatgccaccaacggcctcttcagcacccctcagcagctcgcccatctg 1010
|||||
Sbjct: 64907 tgagcaggtggaggatgccaccaacggcctcttcagcacccctcagcagctcgcccatctg 64966

Query: 1011 ctccagcgccacgccag 1027
|||||
Sbjct: 64967 ctccagcgccacgccag 64983

Score = 270 bits (136), Expect = 2e-68
Identities = 136/136 (100%)
Strand = Plus / Plus

Query: 1025 cagactgcagggtcgaggctcaccctgtgagcacaggacgctggagatggtccgggagt 1084
|||||
Sbjct: 65652 cagactgcagggtcgaggctcaccctgtgagcacaggacgctggagatggtccgggagt 65711

Query: 1085 tcgctgggcaatgccccatgctggagaggatcgcgccggacccttgcggtgctggctgcac 1144
|||||
Sbjct: 65712 tcgctgggcaatgccccatgctggagaggatcgcgccggacccttgcggtgctggctgcac 65771

Query: 1145 actgtcccttctacag 1160
|||||
Sbjct: 65772 actgtcccttctacag 65787

Score = 270 bits (136), Expect = 2e-68
Identities = 136/136 (100%)
Strand = Plus / Plus

Query: 455 tgatgtggtgctcggtgcagtggaacatcatgtttctgttagatgggtctaacagcgtcg 514
|||||
Sbjct: 41851 tgatgtggtgctcggtgcagtggaacatcatgtttctgttagatgggtctaacagcgtcg 41910

Query: 515 ggaaaggaggagctttgaaagggtccaagcactttgccatcacagtctgtgacgggtctggaca 574
|||||
Sbjct: 41911 ggaaaggaggagctttgaaagggtccaagcactttgccatcacagtctgtgacgggtctggaca 41970

Query: 575 tcagccccgagagggt 590
|||||
Sbjct: 41971 tcagccccgagagggt 41986

Score = 220 bits (111), Expect = 2e-53
Identities = 111/111 (100%)
Strand = Plus / Plus

Query: 588 ggtcagagtgggagcattccagttcagttccactcctcatctggaattcccttggattc 647
Sbjct: 48121 ggtcagagtgggagcattccagttcagttccactcctcatctggaattcccttggattc 48180

Query: 648 attttcaacccaacaggaagtgaaggcaagaatcaagaggatgggttttcaa 698
Sbjct: 48181 attttcaacccaacaggaagtgaaggcaagaatcaagaggatgggttttcaa 48231

Score = 218 bits (110), Expect = 7e-53
Identities = 110/110 (100%)
Strand = Plus / Plus

Query: 1215 agggccctgtgactcgcagccctgccagaatggaggcacatgtgttccagaaggactgga 1274
Sbjct: 71797 agggccctgtgactcgcagccctgccagaatggaggcacatgtgttccagaaggactgga 71856

Query: 1275 cggctaccagtgcctctgcccgtggcctttggagggaggctaactgtg 1324
Sbjct: 71857 cggctaccagtgcctctgcccgtggcctttggagggaggctaactgtg 71906

Score = 153 bits (77), Expect = 3e-33
Identities = 77/77 (100%)
Strand = Plus / Plus

Query: 378 agtgcccccatctctccctctccaggaagtccatgtaagcaaagaaccatcggaagat 437
Sbjct: 40585 agtgcccccatctctccctctccaggaagtccatgtaagcaaagaaccatcggaagat 40644

Query: 438 ttcagctgccagcaaaa 454
Sbjct: 40645 ttcagctgccagcaaaa 40661

Score = 117 bits (59), Expect = 2e-22
Identities = 59/59 (100%)
Strand = Plus / Plus

Query: 1159 agctggaagagagtgttccctaaccaccctgccacctgctacaggaccacctgccagg 1217
Sbjct: 69450 agctggaagagagtgttccctaaccaccctgccacctgctacaggaccacctgccagg 69508

Score = 117 bits (59), Expect = 2e-22
Identities = 62/63 (98%)
Strand = Plus / Plus

Query: 317 gttatatcaacatgcccccttctctgttgctggagccgtctgtgttttctgttttcca 376
Sbjct: 35639 gttatatcaacatgcccccttctctgttgctggagccgtctgtgttttctgttttcca 35698

Query: 377 gag 379
Sbjct: 35699 gag 35701